

**METHOD AND APPARATUS FOR MEASUREMENT OF MEAN PULMONARY  
ARTERY PRESSURE FROM A VENTRICLE IN AN AMBULATORY MONITOR**

ABSTRACT

5           A system and method for determining mean pulmonary arterial pressure (MPAP) using a  
pressure sensor located within a ventricle of a heart, and a signal indicative of cardiac electrical  
activity such as an electrocardiogram (ECG) signal. The pressure may be sensed within the right  
and/or left ventricle using an implanted pressure sensor. The sensed pressure may be used to  
determine the Ventricular Systolic Pressure (VSP) and an estimated Pulmonary Arterial Diastolic  
10       pressure (ePAD). The VSP, ePAD, and time intervals associated with systole and diastole may  
then be used to obtain an MPAP that closely approximates mean pulmonary arterial pressure  
measured using a sensor located in the pulmonary artery.

11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100